

# Work Order ID 65831

Wednesday, January 26, 2011 11:30:33 AM



Page 1

Item ID: D350-689-043

Accept



Setup Start



Revision ID:

Item Name: Dual High Back Seat Assembly

Stop



Start Date: 1/26/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/7/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals:

Process Plan:

*M*

Date: 11-01-26

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
DSI 9498	A

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-689-043 CHG002

*N/A*

110

0.00



Large Fab

Large Fab

Memo

0.00

Large Fab

Assemble as per IIN 350-689

*EL 11-3-30* *XS*  
*ES 11/03/31* *(12)*

120

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

*8 11/03/31*

*(4)*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

**Work Order ID 65831**

Page 3

Wednesday, January 26, 2011 11:30:33 AM

Item ID: D350-689-043

Accept



Setup Start



Revision ID:

Stop



Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 2/7/2011 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

160

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

84603/31

+0

170

Identify as per dwg &amp; Stock Location: \_\_\_\_\_

0.00



Packaging

Memo

0.00

Packaging

PPP  
65829

11/3/31

180

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

11/3/31

MF  
11-03-31

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

Wednesday, January 26, 2011 11:30:39 AM

**Required Qty: 1.00**

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
ST351	55	
114494	2	
114536	53	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

Wednesday, January 26, 2011 11:30:39 AM

Page 2

Work Order ID: 65831

Parent Item: D350-689-043



Parent Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011



Required Date: 2/7/2011

Start Qty: 1.00



Required Qty: 1.00

D3016-041	Manufactured	No	150	Each	1.0000	2	2	1
								
Seat Frame Assembly								EL 11-3-30



Location	Loc Qty	Loc Code
GA	1	
64543	1	

D3021-041	Manufactured	No	150	Each	0.0000	1	1	
								
Tube Assembly								EL 11-3-30



65834x1

D3022-1	Manufactured	No	150	Each	7.0000	1	1	
								
Seat Pan								EL 11-3-30

Location	Loc Qty	Loc Code
WA	7	
52352	7	

D3024-1	Manufactured	No	150	Each	10.0000	3	3	
								
Spacer								EP 11/03/31

Location	Loc Qty	Loc Code
ST034	10	
43394	5	
50343	5	

D3031-1	Manufactured	No	150	Each	7.0000	2	2	
								
Loop								EP 11/03/31

Location	Loc Qty	Loc Code
ST034	7	
43395	7	

Wednesday, January 26, 2011 11:30:40 AM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, January 26, 2011 11:30:40 AM

Work Order ID: 65831

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011

Required Date: 2/7/2011

Start Qty: 1.00

Required Qty: 1.00

D3808-041 Manufactured No 150 Each 9.0000 2



Seat Rail Assembly



*EP 5/11/03/31*

Location Loc Qty Loc Code

ST262 9

41238 1

44695 8

D3809-1 Manufactured No 150 Each 20.0000 4



Sliding Block



*EP 5/11/03/31*

Location Loc Qty Loc Code

ST090 20

44696 20

MS20600-AD4W3 Purchased No 150 Each 1,335.000 6



Cherry Rivets



*EP 5/11/03/31*

Location Loc Qty Loc Code

ST321 1335

107939 754

111636 581

MS21042L3 Purchased No 150 Each 3,059.000 17



Nut



*EP 5/11/03/31*

Location Loc Qty Loc Code

ST300 3059

114784 9

115835 550

116391 900

116540 800

116549 800

*EP 5/11/03/31*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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# Picklist Print

Wednesday, January 26, 2011 11:30:40 AM

Page 4

Work Order ID: 65831

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011

Required Date: 2/7/2011

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

150

Each

4,319.000

6

6



Nut



*EP 11/03/31*

Location

Loc Qty

Loc Code

ST300

4319

1123143

2

115589

10

115621

21

116188

3500

116548

786

*6*

MS24693-S272

Purchased

No

150

Each

97.0000

4

4



Screw



*EP 11/03/31*

Location

Loc Qty

Loc Code

ST288

97

111548

1

112492

4

115835

4

116391

88

*4*

MS24694-S148

Purchased

No

150

Each

64.0000

4

4



Screw



*EP 11/03/31*

Location

Loc Qty

Loc Code

ST289A

64

108946

14

108960

50

*4*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, January 26, 2011 11:30:41 AM

Page 5

Work Order ID: 65831

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011

Required Date: 2/7/2011

Start Qty: 1.00

Required Qty: 1.00

MS24694-S3

Purchased

No

150

Each

59.0000

8

8



Screw

Location

Loc Qty

Loc Code

ST289

59

108936

39

112794

20



EPB11/03/31

MS27039-1-17

Purchased

No

150

Each

60.0000

4

4



Screw

Location

Loc Qty

Loc Code

ST292

60

11540

60



EPB11/03/31

MS27039-1-19

Purchased

No

150

Each

120.0000

6

6



Screw

Location

Loc Qty

Loc Code

ST292

120

100089

20

112794

100



EPB11/03/31

MS27039-4-21

Purchased

No

150

Each

8.0000

6

6



Screw

Location

Loc Qty

Loc Code

ST293

8

114055

8



EPB11/03/31

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Wednesday, January 26, 2011 11:30:41 AM

Work Order ID: 65831

Parent Item: D350-689-043

Parent Item Name: Dual High Back Seat Assembly

Start Date: 1/26/2011

Required Date: 2/7/2011

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0332J

Purchased

No

150

Each

287.0000

17

17



Washer

Location

Loc Qty

Loc Code

ST298

287

116441

287

150

Each

276.0000

6

6

NAS1149D0432J

Purchased

No



WASHER

Location

Loc Qty

Loc Code

ST298

276

112557

2

114718

74

116583

200

*ES 1/26/11*  
M117010 (17x)

*ES 1/26/11*  
6

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A  
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV 0  
REF TCCA STC: SH02-33  
REF FAA STC: SR01620NY  
REF EASA STC: EASA.IM.R.S.01453  
REF BRAZILIAN STC: 2005S03-09

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 45831

## PURPOSE:

TO UPDATE THE PARTS LIST AND THE WEIGHT AND BALANCE TABLE IN IIN-D350-689 REV A AND ICA-D350-689 REV 0.

## CHANGE:

FOR D350-689-011 AT CHANGE 003, D350-689-021 AT CHANGE 002, D350-689-041 AT CHANGE 002 AND D350-689-043 AT CHANGE 002, QTY (6) OF: MS27039-1-19 SCREW; MS21042L3 NUT & AN960JD10L WASHER REPLACED WITH QTY (6) OF: MS27039-4-21 SCREW; MS21042L4 NUT & NAS1149D0432J WASHER RESPECTIVELY. FIGURE 6 (PG 9) OF IIN-D350-689 MODIFIED PER SHT 2 OF THIS SERVICE INSTRUCTION. THE HARDWARE SECTION OF THE PARTS LIST IN SECTION 5 (PG 10) OF IIN-D350-689 REV A & SECTION 25.6 (PG 31) OF ICA-D350-689 REV 0 IS AMENDED AS FOLLOWS:

Qty -011	Qty -013	Qty -021	Qty -023	Qty -041	Qty -043	Part Number	Description
X						D350-689-011	DUAL HIGH BACK SEAT INSTALLATION, LH
1	X					D350-689-013	FLOOR PROVISIONS KIT
		X				D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH (REF DSI 9419)
		1	X			D350-689-023	ENERGY ATTENUATING FLOOR PROVISION KIT (REF DSI 9419)
1				X		D350-689-041	DUAL HIGH BACK SEAT ASSEMBLY
		1			X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY (REF DSI 9419)
	6			17	17	NAS1149D0332J	WASHER (OR AN960JD10L)
			9			NAS1149D0363J	WASHER (OR AN960JD10)
				6	6	NAS1149D0432J	WASHER (OR AN960JD416)
				3	3	AN3-12A	BOLT
	16					MS20426AD3-6	RIVET
			14			MS20426AD4-5	RIVET
	17					MS20426AD4-6	RIVET
	18		34			MS20470AD4-5	RIVET
	2		18			MS20470AD4-6	RIVET
	30		32			MS20470AD5-6	RIVET
				40	40	MS20600AD4W2	RIVET
				6	6	MS20600AD4W3	RIVET (REF DSI 9349)
	8					MS21059L3	NUTPLATE
	6					MS27039-1-10	SCREW
				4	4	MS27039-1-17	SCREW
				6	6	MS27039-1-19	SCREW
				6	6	MS27039-4-21	SCREW
				4	4	MS24693-S272	SCREW
	2					MS24693-S273	SCREW
					8	MS24694-S3	SCREW
			9			MS24694-S50	SCREW
					4	MS24694-S148	SCREW
			9	17	17	MS21042L3	NUT (OR MS21042-3)
				6	6	MS21042L4	NUT (OR MS21042-4)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

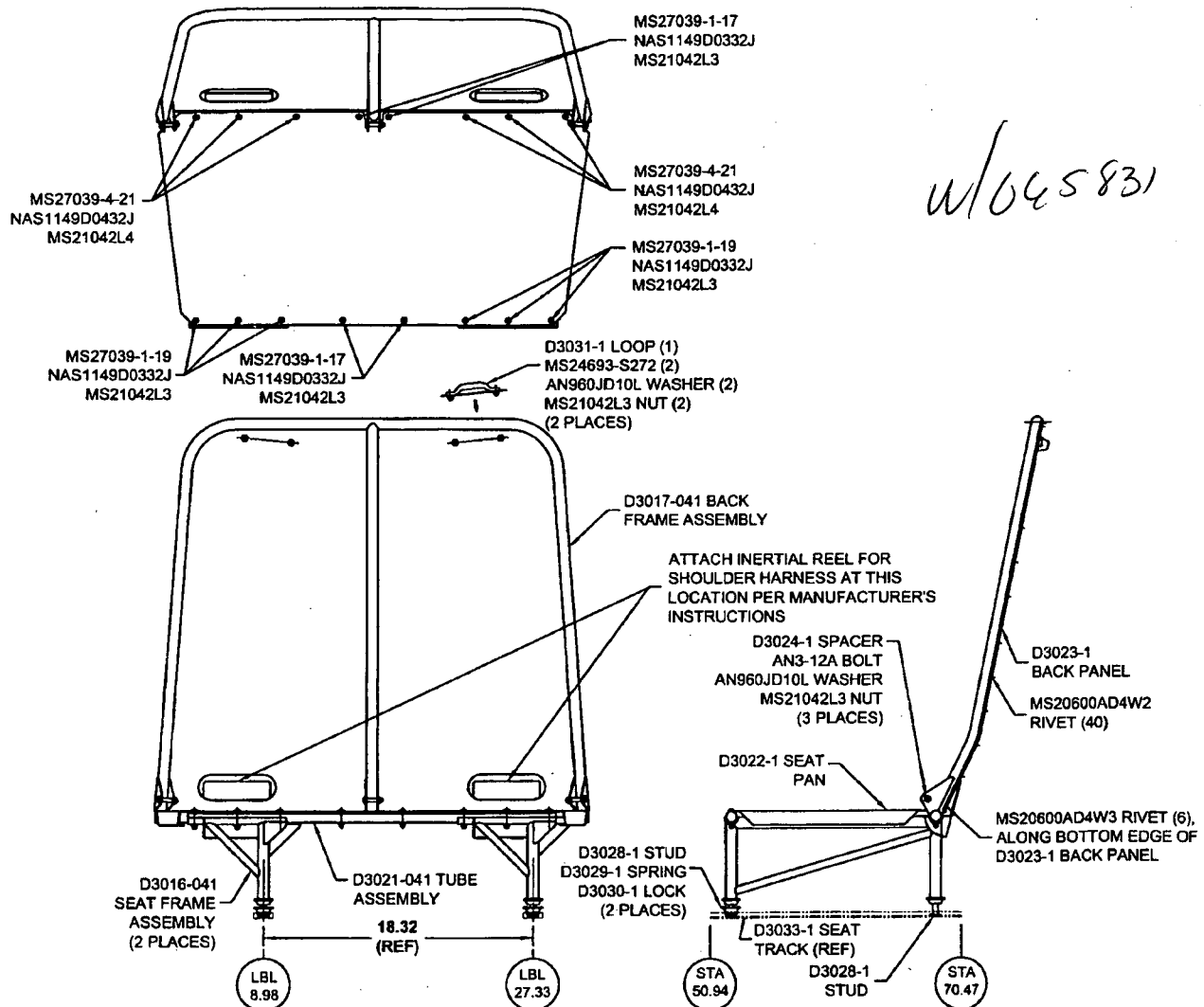
APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)  
DATE: 10.01.21  
CERT. NO.: SH02-33  
ISSUE NO.: 1

A	NEW ISSUE.	JPH	10.01.21
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9498	SHEET 1 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SEAT REINF; IIN & ICA UPDATE	NTS
DATE	10.01.21	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

**CHANGE:**

THE FOLLOWING WEIGHT AND BALANCE INFORMATION IS FOR THE D350-689-011 DUAL HIGH BACK SEAT AT CHANGE 003 (OR LATER) AND THE D350-689-021 DUAL HIGH BACK SEAT AT CHANGE 002 (OR LATER).

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D350-689-011	27.6 lb	-18.2 in	-502 in-lb	60.7 in	1675 in-lb
Dual High Back Seat Installation	12.5 kg	-0.46 m	-5.8 m-kg	1.54 m	19.3 m-kg
D350-689-021 Dual High Back Seat	29.2 lb	-18.2 in	-531 in-lb	60.7 in	1772 in-lb
Installation, LH Fwd Position	13.2 kg	-0.46 m	-6.1 m-kg	1.54 m	20.3 m-kg
D350-689-021 Dual High Back Seat	29.2 lb	-18.2 in	-531 in-lb	64.7 in	1889 in-lb
Installation, LH Aft Position	13.2 kg	-0.46 m	-6.1 m-kg	1.64 m	21.6 m-kg

**REF FIGURE 6 (IIN-350-689)**

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY: *[Signature]*  
D. SHEPHERD (DE # 02)

DATE: 10.01.21  
CERT. NO.: SH02-33  
ISSUE NO.: 1

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9498	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		SEAT REINF; IIN & ICA UPDATE	NTS
DATE	10.01.21	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	